

170/2661

O I P E
M A R 2 7 2 0 0 6
P A T E N T & T R A D E M A R K S E R V I C E
Practitioner's Docket No. 3245-PAT

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of: Bobkov, et al.

Application No.: 10/524,988 Group No.: 2661

Filed: 10/04/2005 Examiner: unknown

For: Method for suppressing narrowband noise in a wideband communication system

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REQUEST FOR CORRECTED FILING RECEIPT

1. Attached is a copy of the official filing receipt received from the PTO in the above application for which issuance of a corrected filing receipt is respectfully requested.

NOTE: The PTO will not correct the filing receipt until the application is complete (in other words, the applicant files a response to the notice to file missing parts).

2. There is an error with respect to the following data, which is:

incorrectly entered

and/or

omitted.

CERTIFICATION UNDER 37 C.F.R. §§ 1.8(a) and 1.10*

*(When using Express Mail, the Express Mail label number is mandatory;
Express Mail certification is optional.)*

I hereby certify that, on the date shown below, this correspondence is being:

MAILING

deposited with the United States Postal Service in an envelope addressed to Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

37 C.F.R. § 1.8(a)

37 C.F.R. § 1.10 *

with sufficient postage as first class mail. as "Express Mail Post Office to Addressee"

Mailing Label No. _____ (mandatory)

TRANSMISSION

facsimile transmitted to the Patent and Trademark Office, (703) _____


Signature

DONN K. HARMS

(type or print name of person certifying) the

* Only the date of filing (§ 1.6) will be the date used in a patent term adjustment calculation, although date on any certificate of mailing or transmission under § 1.8 continues to be taken into account in determining timeliness. See § 1.703(f). Consider "Express Mail Post Office to Addressee" (§ 1.10) or facsimile transmission (§ 1.6(d)) for the reply to be accorded the earliest possible filing date for patent term adjustment calculations.

Error in

1. Applicant's name
2. Applicant's address
3. Title
4. Filing Date
5. Application Number
6. Foreign/PCT Application Re:

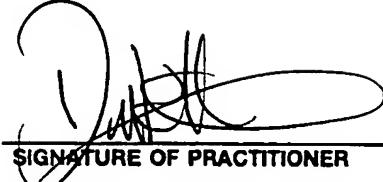
7. Other The name of the 3rd inventor was omitted from the filing receipt, even though it was included as page 3 of the Declaration originally filed with the application on 2/17/2005.

(See attached Declaration)

Correct data

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
7. VASILIY VASILIEVICH KALUGIN
d.3. kv.33 derevnya Novo-Shihovo
Moskovskaya obl. Odincovski
Russian Federation

Reg. No.: 38,911



SIGNATURE OF PRACTITIONER

DONN K. HARMS

(type or print name of practitioner)

Tel. No.: (858) 509-1400

12702 Via Cortina, Ste. 100

P.O. Address

Del Mar, CA 92014

Customer No.: 30084



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
 United States Patent and Trademark Office
 Address: COMMISSIONER FOR PATENTS
 P.O. Box 1450
 Alexandria, Virginia 22313-1450
 www.uspto.gov

APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY.DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/524,988	10/04/2005	2661	580	3245-PAT	6	1	1

30084
 DONN K. HARMS
 PATENT & TRADEMARK LAW CENTER
 SUITE 100
 12702 VIA CORTINA
 DEL MAR, CA 92014

CONFIRMATION NO. 3222

FILING RECEIPT



"OC000000018216318"

Date Mailed: 03/07/2006

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Mihail Nikolaevich Bobkov, Moscow, RUSSIAN FEDERATION;
 Aleksei Aleksandrovich Galitsin, Ljubertsy, RUSSIAN FEDERATION;

Power of Attorney: The patent practitioners associated with Customer Number 30084.

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/RU03/00371 08/19/2003

Foreign Applications

RUSSIAN FEDERATION 2002122545 08/22/2002

Projected Publication Date: 06/15/2006

Non-Publication Request: No

Early Publication Request: No

**** SMALL ENTITY ****

Title

Method for suppressing narrowband noise in a wideband communication system

Preliminary Class

370

PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

**LICENSE FOR FOREIGN FILING UNDER
Title 35, United States Code, Section 184
Title 37, Code of Federal Regulations, 5.11 & 5.15**

GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR

1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

NOT GRANTED

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).



PTO/SB/01 (09-04)

Approved for use through 07/31/2006, OMB 0651-0032
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

**DECLARATION FOR UTILITY OR
DESIGN
PATENT APPLICATION
(37 CFR 1.63)**

Declaration
Submitted
With Initial
Filing

OR

Declaration
Submitted after Initial
Filing (surcharge
(37 CFR 1.16 (e))
required)

Attorney Docket Number	3245-PAT
First Named Inventor	Bobkov, Mihail Nikolaevich
COMPLETE IF KNOWN	
Application Number	
Filing Date	
Art Unit	
Examiner Name	

I hereby declare that:

Each inventor's residence, mailing address, and citizenship are as stated below next to their name.

I believe the inventor(s) named below to be the original and first Inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**METHOD FOR SUPPRESSING NARROWBAND NOISE IN A WIDEBAND
COMMUNICATION SYSTEM**

(Title of the Invention)

the specification of which

is attached hereto

OR

was filed on (MM/DD/YYYY) 08/19/2003 as United States Application Number or PCT International

Application Number PCT/RU2003/000371 and was amended on (MM/DD/YYYY) (if applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT International filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached? YES	NO
2002122545	RU	08/22/2002	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input checked="" type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

(Page 1 of 2)

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance completing the form, call 1-800-PTO-9199 and select option 2.

PTO/SB/01 (09-04)

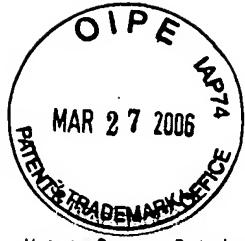
Approved for use through 07/31/2006, OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

DECLARATION — Utility or Design Patent Application

Direct all correspondence to:		<input checked="" type="checkbox"/> The address associated with Customer Number:	30084	OR	<input type="checkbox"/> Correspondence address below
Name					
Address					
City		State		ZIP	
Country		Telephone		Fax	
<p>I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.</p>					
NAME OF SOLE OR FIRST INVENTOR:		<input type="checkbox"/> A petition has been filed for this unsigned Inventor			
Given Name (first and middle [if any]) MIHAEL NIKOLAEVICH			Family Name or Surname BOBKOV		
Inventor's Signature 				Date 14.02.05	
Residence: City Moscow	State	Country Russian Federation	Citizenship Russian Federation		
Mailing Address ul. Novogireevskaya, d.4, kv. 103					
City Moscow	State	Zip 111123	Country Russian Federation		
NAME OF SECOND INVENTOR:		<input type="checkbox"/> A petition has been filed for this unsigned inventor			
Given Name (first and middle [if any]) ALEKSEI ALEKSANDROVICH			Family Name or Surname GALITSIN		
Inventor's Signature 				Date 14.02.05	
Residence: City Ljubertsy	State Moskovskaya obl.	Country Russian Federation	Citizenship Russian Federation		
Mailing Address ul. Kommunisticheskaya, d.18, kv.158					
City Ljubertsy	State Moskovskaya obl.	Zip 140013	Country Russian Federation		
<input type="checkbox"/> Additional inventors or a legal representative are being named on the supplemental sheet(s) PTO/SB/02A or 02LR attached hereto.					



PTO/SB/02A (09-04)

Approved for use through 07/31/2006. OMB 0651-0032

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

DECLARATION		ADDITIONAL INVENTOR(S) Supplemental Sheet
Page <u>2</u> of <u>2</u>		

Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
VASILIY VASILIEVICH		KALUGIN	
Inventor's Signature		14.02.05 Date	
Residence: City	derevnya Novo-Shihovo	Moskovskaya obl. State Odincovski rayon	Russian Federation Country
d.3, kv.33			
Mailing Address			
derevnya Novo Shihovo City		Moskovskaya obl. Odincovskiy State	143092 Zip
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Inventor's Signature		Date	
Residence: City	State	Country	Citizenship
Mailing Address			
City	State	Zip	Country
Name of Additional Joint Inventor, if any:		<input type="checkbox"/> A petition has been filed for this unsigned inventor	
Given Name (first and middle (if any))		Family Name or Surname	
Inventor's Signature		Date	
Residence: City	State	Country	Citizenship
Mailing Address			
City	State	Zip	Country

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.



(12) МЕЖДУНАРОДНАЯ ЗАЯВКА, ОПУБЛИКОВАННАЯ В СООТВЕТСТВИИ С
ДОГОВОРОМ О ПАТЕНТНОЙ КООПЕРАЦИИ (PCT)

(19) ВСЕМИРНАЯ ОРГАНИЗАЦИЯ
ИНТЕЛЛЕКТУАЛЬНОЙ СОБСТВЕННОСТИ
Международное бюро



(43) Дата международной публикации:
4 Марта 2004 (04.03.2004)

PCT

(10) Номер международной публикации:
WO 2004/019507 A1

(51) Международная патентная классификация⁷:
H04B 1/10

вар, д. 11 (RU) [OBSCHESTVO S OGРА-
NICHENNOY OTVETSTVENNOSTYU PA-
TENTNO-PRAVOVAYA FIRMA «VIS», Moscow
(RU)].

(21) Номер международной заявки: PCT/RU2003/000371

(81) Указанные государства (национально): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(22) Дата международной подачи:
19 августа 2003 (19.08.2003)

(84) Указанные государства (регионально): ARIPO патент (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), евразийский патент (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), европейский патент (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), патент OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

(25) Язык подачи: русский

(26) Язык публикации: русский

(30) Данные о приоритете:
2002122545 22 августа 2002 (22.08.2002) RU

Опубликована

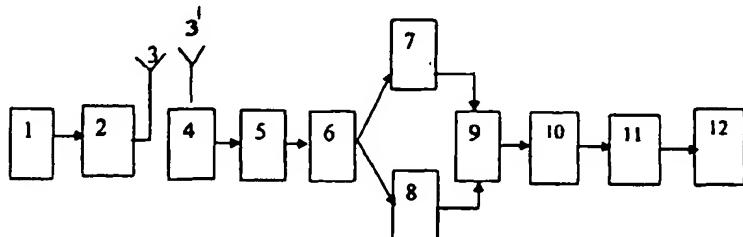
С отчётом о международном поиске.

В отношении двухбуквенных кодов, кодов языков и других сокращений см. «Пояснения к кодам и сокращениям», публикуемые в начале каждого очередного выпуска Бюллетеня PCT.

(74) Агент: ОБЩЕСТВО С ОГРАНИЧЕННОЙ ОТВЕТ-
СТВЕННОСТЬЮ ПАТЕНТНО-ПРАВОВАЯ
ФИРМА «VIS»; 121609 Москва, Осенний буль-

(54) Title: METHOD FOR SUPPRESSING NARROWBAND NOISE IN A WIDEBAND COMMUNICATION SYSTEM

(54) Название изобретения: СПОСОБ ПОДАВЛЕНИЯ УЗКОПОЛОСНОЙ ПОМЕХИ В СИСТЕМЕ ШИРОКО-
ПОЛОСНОЙ СВЯЗИ



(57) Abstract: The invention is used for communication engineering, for example for wideband spread-spectrum communication systems. Said invention makes it possible to increase narrowband noise suppression ratio and practically eliminate the influence of a high-power narrowband noise or the group thereof within a limited bandwidth. The inventive method consists in power modulating a noise signal which is formed in the transmitting channel within a (F_0 , F_1) frequency band, of the wideband communication system according to a defined modulation law within a frequency band of F_{mod} ($F_1 - F_0$), in transmitting said noise signal through a transmission medium in which a narrowband noise is superposed thereon, receiving said signal by a receiver, filtering it within the (F_0 , F_1) frequency band, amplifying and dividing it into two signals. One signal is obtained as a result of the filtered signal amplification and the amplitude limitation thereof. Said filtered signal or a linearly amplified signal without any change in the form thereof are used as a second signal. Afterwards, the thus obtained signals are multiplied together, the resulting signal is filtered within a frequency band [F_{narrow} , ($F_1 - F_0$)], and a signal envelope obtained as a result of the filtering in the frequency band [F_{narrow} , ($F_1 - F_0$)] is separated for the purpose of subsequent demodulation and acquisition of an information signal.

WO 2004/019507 A1